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2631 *#2*  
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05-16-02

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )

Heegard et al. )

Application No.: 09/922,366 )

Filed: August 3, 2001 )

For: JOINT EQUALIZATION AND DECODING USING  
A SEARCH-BASED DECODING ALGORITHM )

**RECEIVED**

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Technology Center 2600

Commissioner for Patents  
Washington, D.C. 20231

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to Commissioner for Patents, Washington, D.C. 20231 on November 20, 2001

By: *Carol Prentice*  
Carol Prentice

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In accordance with 37 C.F.R. §1.56, Applicants wish to call  
the attention of the Examiner to the following references:

**PUBLICATION(S):**

Fano, Robert M., "A Heuristic Discussion of Probabilistic Decoding," IEEE Transactions on Information Theory, April 1963, pp. 64-74.

Viterbi, Andrew J., "Error Bounds for Convolutional Codes and an Asymptotically Optimum Decoding Algorithm," IEEE Transactions on Information Theory, April 1967, pp. 260-269.

Kobayashi, Hisashi, "Correlative Level Coding and Maximum-Likelihood Decoding," IEEE Transactions on Information Theory, September 1971, pp. 586-594.

Forney, Jr., G. David, "Maximum-Likelihood Sequence Estimation of Digital Sequences in the Presence of Intersymbol Interference," IEEE Transactions on Information Theory, May 1972, pp. 363-378.

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**Page 2**

Copies of the above-listed references are enclosed, together with a completed form PTO-1449.

Consideration of these references by the Examiner is respectfully requested. To date, a first Office Action on the merits has not been received in connection with this application. This Information Disclosure Statement is therefore believed to be timely filed.

Respectfully submitted,



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Attorney for Applicant(s)  
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**Date: November 20, 2001**  
**ATTORNEY DOCKET NO.: ALA-110**

FORM PTO-1449		JAN 29 2002	ATTY. DOCKET NO.: ALA-110	SERIAL NO.: 09/922,366
<u>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</u>		APPLICANT(S): Heegard et al.		
		FILING DATE: August 3, 2001		GROUP:

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AA	Fano, Robert M., "A Heuristic Discussion of Probabilistic Decoding," IEEE Transactions on Information Theory, April 1963, pp. 64-74.
AB	Viterbi, Andrew J., "Error Bounds for Convolutional Codes and an Asymptotically Optimum Decoding Algorithm," IEEE Transactions on Information Theory, April 1967, pp. 260-269.
AC	Kobayashi, Hisashi, "Correlative Level Coding and Maximum-Likelihood Decoding," IEEE Transactions on Information Theory, September 1971, pp. 586-594.
AD	Forney, Jr., G. David, "Maximum-Likelihood Sequence Estimation of Digital Sequences in the Presence of Intersymbol Interference," IEEE Transactions on Information Theory, May 1972, pp. 363-378.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.